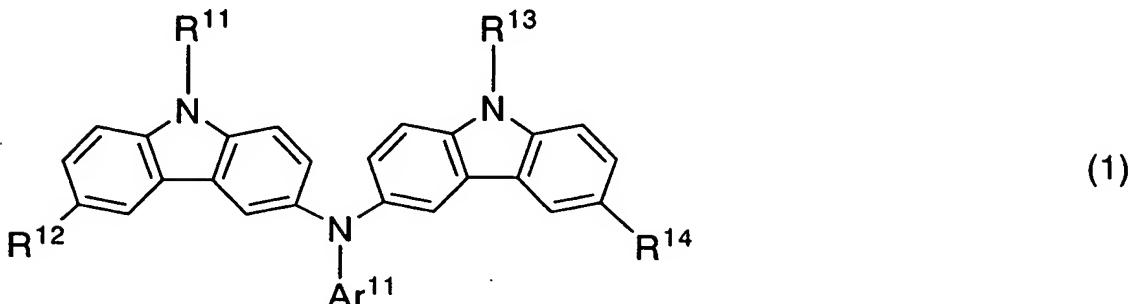


## CLAIMS

1. A carbazole derivative represented by a general formula (1):

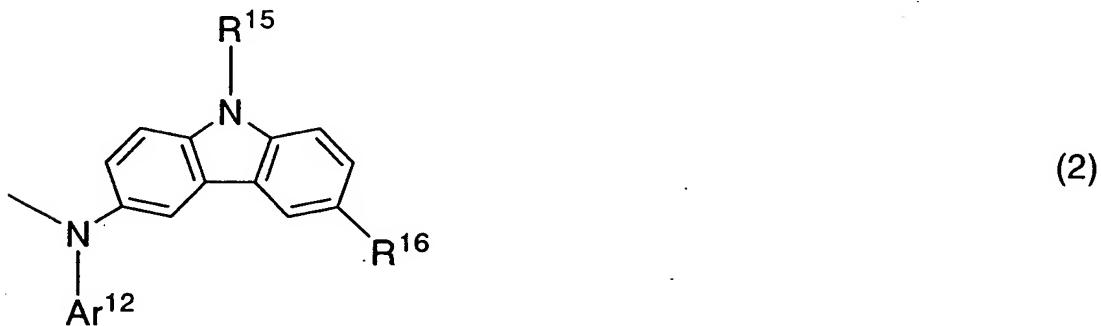


5 wherein at least one of R<sup>11</sup> and R<sup>13</sup> represents hydrogen, an alkyl group having 1 to 6 carbon atoms, an aryl group having 6 to 25 carbon atoms, a heteroaryl group having 5 to 9 carbon atoms, an arylalkyl group, or an acyl group having 1 to 7 carbon atoms,

10 wherein Ar<sup>11</sup> represents an aryl group having 6 to 25 carbon atoms or a heteroaryl group having 5 to 9 carbon atoms,

wherein R<sup>12</sup> represents hydrogen, an alkyl group having 1 to 6 carbon atoms, or an aryl group having 6 to 12 carbon atoms,

15 wherein R<sup>14</sup> represents hydrogen, an alkyl group having 1 to 6 carbon atoms, an aryl group having 6 to 12 carbon atoms, or a substituent shown by the general formula (2),



wherein R<sup>15</sup> represents hydrogen, an alkyl group having 1 to 6 carbon atoms, an aryl group having 6 to 25 carbon atoms, a heteroaryl group having 5 to 9 carbon atoms, an aryl alkyl group, or an acyl group having 1 to 7 carbon atoms,

20 wherein Ar<sup>12</sup> represents an aryl group having 6 to 25 carbon atoms, or a

heteroaryl group having 5 to 9 carbon atoms, and

wherein  $R^{16}$  represents hydrogen, an alkyl group having 1 to 6 carbon atoms, or an aryl group having 6 to 12 carbon atoms.

5 2. The carbazole derivative according to Claim 1, wherein at least one of  $R^{11}$  and  $R^{13}$  is an aryl group having 6 to 25 carbon atoms, or a heteroaryl group having 5 to 9 carbon atoms.

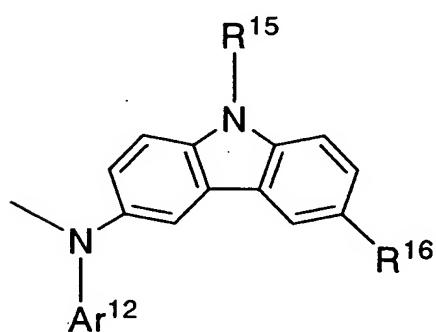
10 3. The carbazole derivative according to Claim 1, wherein  $R^{11}$  and  $R^{13}$  are the same.

4. The carbazole derivative according to Claim 1, wherein at least one of  $R^{11}$  and  $R^{13}$  is phenyl.

15 5. The carbazole derivative according to any one of Claims 1 to 3, wherein  $R^{12}$  represents hydrogen, *tert*-butyl, phenyl, or biphenyl.

6. The carbazole derivative according to any one of Claims 1 to 4, wherein  $R^{14}$  represents hydrogen, *tert*-butyl, phenyl, or biphenyl.

20 7. The carbazole derivative according to any one of Claims 1 to 5, wherein  $R^{14}$  is a substituent represented by a general formula (2)



(2)

8. The carbazole derivative according to Claim 6, wherein  $R^{15}$  represents an aryl group having 6 to 25 carbon atoms, or a hetero aryl group having 5 to 9 carbon atoms.

5 9. The carbazole derivative according to Claim 6 or 7, wherein  $R^{16}$  represents hydrogen, *tert*-butyl, phenyl, or biphenyl.

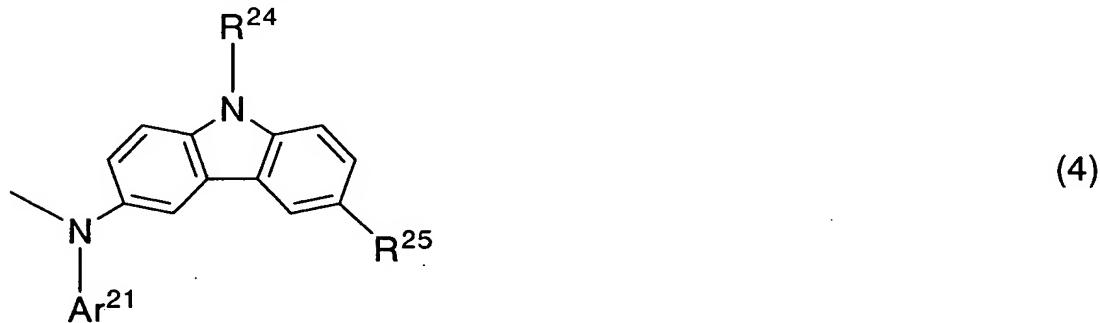
10. A carbazole derivative represented by a general formula (3):



10 wherein  $R^{21}$  represents hydrogen, an alkyl group having 1 to 6 carbon atoms, an aryl group having 6 to 25 carbon atoms, a heteroaryl group having 5 to 9 carbon atoms, an arylalkyl group, or an acyl group having 1 to 7 carbon atoms,

wherein  $R^{22}$  represents hydrogen, an alkyl group having 1 to 6 carbon atoms, or an aryl group having 6 to 12 carbon atoms,

15 wherein  $R^{23}$  represents a substituent shown by the general formula (4),



wherein  $R^{24}$  represents hydrogen, an alkyl group having 1 to 6 carbon atoms, an aryl group having 6 to 25 carbon atoms, a heteroaryl group having 5 to 9 carbon atoms, an aryl alkyl group, or an acyl group having 1 to 7 carbon atoms,

20 wherein  $Ar^{21}$  represents an aryl group having 6 to 25 carbon atoms, or a heteroaryl group having 5 to 9 carbon atoms, and

wherein R<sup>25</sup> represents hydrogen, an alkyl group having 1 to 6 carbon atoms, or an aryl group having 6 to 12 carbon atoms.

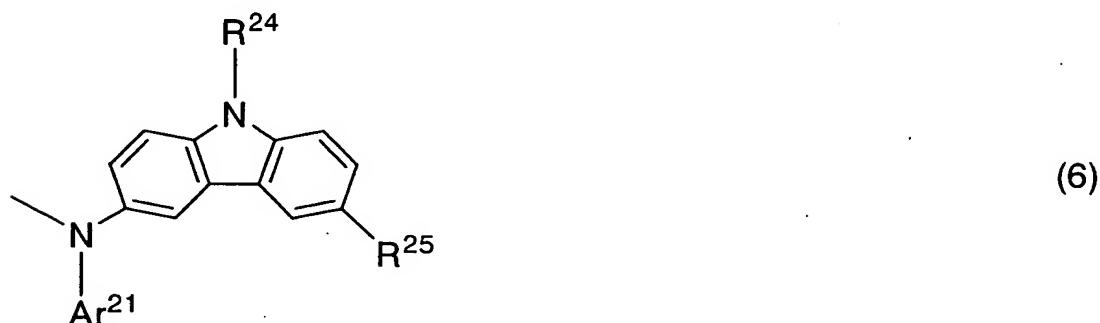
11. The carbazole derivative according to Claim 9, wherein R<sup>22</sup> represents 5 hydrogen, *tert*-butyl, phenyl, or biphenyl.

12. A carbazole derivative represented by a general formula (5):



wherein R<sup>21</sup> represents hydrogen, an alkyl group having 1 to 6 carbon atoms, 10 an aryl group having 6 to 25 carbon atoms, a heteroaryl group having 5 to 9 carbon atoms, and an arylalkyl group, or an acyl group having 1 to 7 carbon atoms,

wherein R<sup>22</sup> and R<sup>23</sup> represent a substituent represented by the general formula (6),



15 wherein R<sup>24</sup> represents hydrogen, an alkyl group having 1 to 6 carbon atoms, an aryl group having 6 to 25 carbon atoms, a heteroaryl group having 5 to 9 carbon atoms, an arylalkyl group, or an acyl group having 1 to 7 carbon atoms,

wherein Ar<sup>21</sup> represents an aryl group having 6 to 25 carbon atoms, or a heteroaryl group having 5 to 9 carbon atoms, and

20 wherein R<sup>25</sup> represents hydrogen, an alkyl group having 1 to 6 carbon atoms, or a heteroaryl group having 6 to 12 carbon atoms.

13. The carbazole derivative according to Claim 11, wherein  $R^{25}$  represents hydrogen, *tert*-butyl, phenyl, or biphenyl.

5        14. The carbazole derivative according to any one of Claims 9 to 12, wherein  $R^{24}$  represents an aryl group having 6 to 25 carbon atoms, or a hetero aryl group having 5 to 9 carbon atoms.

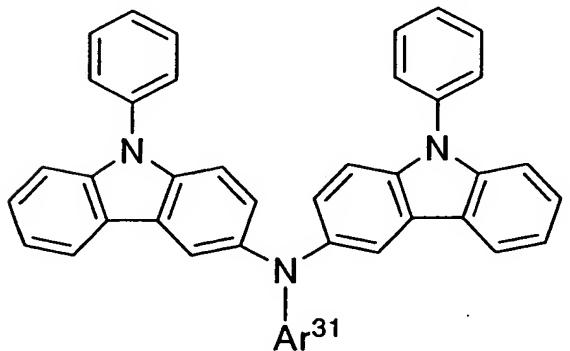
10        15. The carbazole derivative according to any one of Claims 9 to 12, wherein  $R^{24}$  is phenyl.

16. The carbazole derivative according to any one of claims 9 to 14, wherein  $R^{21}$  represents an aryl group having 6 to 25 carbon atoms, or a hetero aryl group having 5 to 9 carbon atoms.

15

17. The carbazole derivative according to any one of claims 9 to 14, wherein  $R^{21}$  is phenyl.

18. A carbazole derivative represented by a general formula (7):

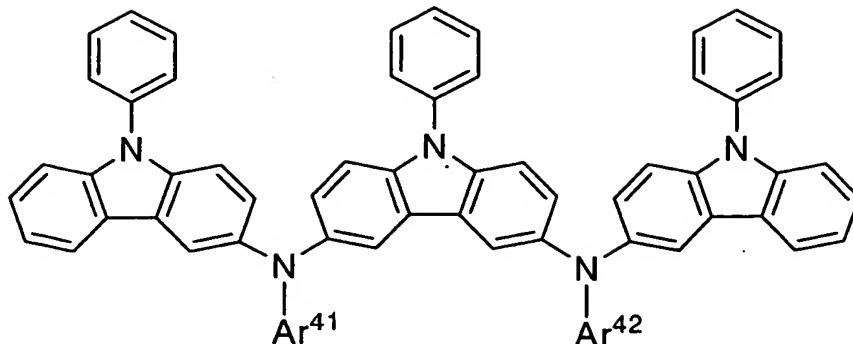


(7)

20

wherein  $Ar^{31}$  represents phenyl or naphtyl.

19. A carbazole derivative represented by a general formula (8)



(8)

wherein Ar<sup>41</sup> and Ar<sup>42</sup> each are the same or different and represents one of phenyl and naphthyl.

5        20. A light-emitting element comprising:  
           an anode;  
           a cathode; and  
           a layer including a luminescent substance between the anode and the cathode,  
           wherein the layer including a luminescent substance comprises the carbazole

10      derivative according to any one of Claims 1 to 18.

15      21. The light-emitting element according to Claim 19, wherein the carbazole derivative is included in a layer which is in contact with the anode.

20      22. The light-emitting element according to Claim 19, wherein the carbazole derivative is included between the anode and a layer having a light-emitting layer which is included in the layer including a luminescent substance.

25      23. The light-emitting element according to Claim 19, wherein the carbazole derivative is included in a light-emitting layer which is included in the layer including a luminescent substance.

30      24. A light-emitting device having the light-emitting element according to any one of Claims 19 to 22.